[c4]

[c5]

Claims

[c1] What is claimed is:

1. A method for providing a reliable connectionless protocol to transfer short pieces of information, the method comprising the steps of:

Using a data transfer process using a layers stack model consisting of multiple layers; and

Adding an intermediate transport layer with the following fields, type of packet and packet ID.

- [c2] 2. The method in claim 1 in which said type of packet field is a single byte.
- [c3] 3. The method in claim 1 in which said packet ID is a single byte.

4. The method in claim 1 in which said type of data field has three possible meanings:

that it is a packet that contains data that must be acknowledged; that it is a packet that contains data that does not need to be acknowledged; and

that it is a packet that is an acknowledge response.

5. The method in claim 1 in which said Packet ID has three possible meanings: it is a number choosen by the packet sending means if it is in a packet that contains data that must be acknowledged;

the field is ignored if it is in a packet that contains data that does not need to be acknowledged;. and

it is the packet ID of the data packet being acknowledged if it is in a packet that is an acknowledge response.

6. The method in claim 1 in which includes the following steps comprising: Sending a packet with the acknowledgement request;

Turning on a timer means;

Waiting for an acknowledgement for the sent packet;

Resending the packet if timer means exceed set response time without receiving an acknowledgement;

Repeating the previous two steps until acknowledgement is received or a set

[c6]

[c9]

[c10]

number of retries is reached; and Reporting the results.

[c7] 7. The method in claim 1 in which includes the following steps comprising: Receiving a packet with an acknowledgement request; Checking to see if it is a duplicate packet by comparing the packet number with the previously received packet; Generating an acknowledgement; and Processing the data.

[c8] 8. The method in claim 1 in which includes processing with an 8-bit microprocesser.

- 9. The method in claim 1 in which includes the following steps comprising using an UDP transport protocol.
- 10. A computer program wherein the base component has interfaces and the program code for: Using a data transfer process using a layers stack model consisting of multiple layers; and

Adding an an intermediate transport layer with the following fields, type of packet and packet ID.

- 11. The computer program in claim 10 in which said type of packet field is a single byte.
- [c12] 12. The computer program in claim 10 in which said packet ID is a single byte.
- [c13] 13. The computer program in claim 10 in which said type of data field has three possible meanings: that it is a packet that contains data that must be acknowledged; that it is a packet that contains data that does not need to be acknowledged;. and that it is a packet that is an acknowledge.
- [c14]14. The computer program in claim 10 in which said Packet ID has three possible meanings:

it is a number choosen by the packet sending means if it is in a packet that contains data that must be acknowledged;

the field is ignored if it is in a packet that contains data that does not need to be acknowledged;. and

it is the packet ID of the data packet being acknowledged if it is in a packet that is an acknowledge response.

[c15] 15. The computer program in claim 10 further comprising:

Computer code for sending a packet with the acknowledgement request;

Computer code for turning on a timer means;

Computer code for waiting for acknowledgement for the sent packet;

Computer code for resending the packet if timer means exceed set response time before acknowledgement is received;

Computer code for repeating the previous two steps until acknowledgement is received or a set number of retries is reached; and

Computer code for reporting the results.

16. The computer program in claim 10 further comprising:

Computer code for receiving a packet with an acknowledgement request;

Computer code for checking to see if it is a duplicate packet by comparing the

packet number with the previously received packet;

Computer code for generating an acknowledgement; and

Computer code for processing the data.

[c17] 17. The computer program in claim 10 further comprising using an UDP transport protocol.